customecccccccdsssr

SAPopulation

SACustomer

composes and

-mCustID:int

-mSatisfaction:int

-mMoney:int

-mTickets:int

-mHunger:int

-mStamina:int

-mNausea:int

-mPatience:int

-mFavoriteFood:string

-mThrillSeeking:int

-mBusy: bool

-mQueue: bool

-mCustomers:vector(SACustomer)

is contained by

+SAPopulation()

+~SAPopulation()

+createPopulation()

+addMCustomers(SACustomer)

+removeMCustomers(SACustomer)

+updateMCustomers(int)

+SACustomer()

+SACustomer(int)

+~SACustomer()

+setMSatisfaction(int)

+getMSatisfaction():int

+setMMoney(int)

+ getMMoney():int

+setMTickets(int)

+ getMMTickets(int):int

+setMHunger (int)

+ getMHunger():int

+ setMStamina (int)

+getMStamina():int

+setMNausea (int)

+ getMNausea():int

+setMPatience (int)

+getMPatience():int

SAPopulationConfiguration

+MAX\_SIZE: const static int

+DAY\_OF\_WEEK [ ]:const double

+WEATHER: const double

+setMBusy(bool)

+getMBusy():bool

+setMQueue(bool)

+ getMQueue():bool

the Customer: Customer

the Population: Population

Operator

Customer()

1:CreatePopulation()

customers

Customer()

2:UpdateCustomers()

customers

3:RemoveCustomers()

Destroys some Customers

Test cases:

The user should enter the positive number in population size.

The user should not enter number more than the maximum of population size.

The money should not be less than $50.

Gantt time-line:

|  |  |  |
| --- | --- | --- |
| Task | Duration (Pdays) | Predecessor Task(s) |
| 1. customer | 5 | - |
| 2. population | 5 | 1 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |